

## **Wideband Channel Characteristics for Indoor Reception of Satellite Transmissions at 2.4 GHz**

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*This paper describes an experimental campaign concerned with the evaluation of channel characteristics for indoor reception of satellite transmissions. A wideband channel sounder, operating at 2.4 GHz with a resolution of 10ns has been designed and constructed. Particular features of this equipment are the low cost and compact size.*

*This equipment has been used to gather statistics of the wideband outdoor-indoor slant-path channel in domestic and office environments. Values of RMS delay spread were generally found to be in the range 5-40ns, with no dependence on elevation angle. Statistics of building penetration loss have also been gathered.*